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590	61	122	623	444	15	486	17	48	69
750	201	282	683	1334	65	616	207	758	119
1620	241	312	933		615	776	767	1078	519
	441	522	943		785	1607	1558	859	
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	521	812	1303	824	1125	536	527	988	989
	981	1252	1583	914	1155	656	817	1118	1119
		1312	1693	1464	1595	696	827	1668	
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470	441	282	183	304	745	556	217	758	519
580	501	312	203	444	785	616	237	778	859
590	601	442	623	784	1015	666	267	868	869
750	641	522	683	1194	1115	766	437	1078	1059
900	931	602	933	1314	1135	776	477	1198	1089
930	1071	692	943	1334	1335	936	617	1318	1259
1150	1131	702	1053	1364	1445	1006	637	1558	1319
1340	1221	852	1203	1444	1485	1246	647	1339	
1500	1301	942	1333	1584	1545	1416	767	1479	
1600	1351	1352	1343		1555		1077	1609	
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			1623						

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310	801	232	253	394	595	466	307	358	389
430	821	822	393	534	775	506	397	498	499
1370	1151	832	523	544	795	706	497	508	699
1410	1511	1512	563	674	815	796	1107	698	709
1510	1391	1372	633	794	825	1106	1217	818	819
1680	1641	1642	793	1104	1155	1526	1357	998	969
	1661		823	1114	1385	1666	1527	1228	999
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1410 1151 1372 833
1641 1642 1663

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290 81 52 563 344 25 346 247 248 499
310 471 1102 633 394 435 396 307 308 699
350 801 1122 793 634 565 466 347 698 709
1090 821 1152 873 674 595 506 497 818 819
1180 1051 1502 1023 794 775 706 1107 998 999
1220 1701 1093 834 815 796 1417 1288 1349
1510 1103 825 836
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280 621 262 163 284 575 476 477 268 479
470 881 272 223 384 715 576 617 458 729
480 1201 282 283 394 895 766 697 558 769
760 1341 372 383 764 935 906 767 728 929
930 1421 382 453 924 1135 936 857 768 939
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 1661 1032 1704 1385 1408
 1681 1662 1658
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 1500 382 383 386 267 258
 1492 443 1326 457 468
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1271	1492			55	376	1347	688	769		850	551	932	953	694	865	756	1337	758	619	
	1552									940	611	962	983	744	1015	886		928	759	
	1622									1070	641	1072	1333	754	1065	896		938	859	
Sewage Treatment										1280	751	1202		854	1075	1036		1068	929	
							548			1330	761	1222		934	1335	1066		1078		
											851	1332		944		1336		1328		
											861			1014				1338		
Shafts (Machine Elements)											891			1074				1348		
	632	1133	354	255	986	537	1128	359			931			1134						
			984	985		917					941			1194						
				1255							1071			1204						
Shakers use more specific term: Electro-hydraulic Shakers, Hydraulic Shakers, Mechanical Shakers											1091			1334						
											1331			1344						
										Ship Anchors										
										681										
Shallow Shells																				
	1071		13	1625	6			859		Shipboard Equipment Response										
					616						991		213							
Shear Deformations use Transverse Shear Deformations										Ship Hulls										
																			1259	
Shear Modulus										Ship Propellers use Marine Propellers										
					85	86				Ships										
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											960				1605					
											990									
Shear Waves										Ship Structural Components										
	412										830	831							1259	
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					1224							831						1258	1259	
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1570	1481	1442	1613	1614	1545	1356	1477	1358	1429	1310	51	252		114	655	1046		1048		
1620	1621	1482	1623	1624	1625	1566	1617	1568	1619		151	1312		184	1045	1466				
			1492	1683		1685	1586	1627	1618			251	1462		1044		1596			
			1542			1626	1637								1464					
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		451		854	865		937	478	559					213				1669		
		551		944				1198	1149											
		851						1199			Shock Excitation									
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	230	41	452	13	4	15	6	467	28	9	760	1091	922	753		285	1356	1317	1058	
	270	61	472	463	454	65	276	487	78	159	830	1191		923		405	1586		1348	
	280	71	612	553	464	465	386	757	88	299	1080			1013		645			1378	
	470	161	682	623	474	475	456	927	278	459				1173		805			1608	
	620	281	752	713	554	615	466	1077	468	469				1493		875				
	770	451	762	753	614	705	486	1197	488	489						1315				
	790	501	862	943	624	765	616	1207	718	559										

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 1031 235 236 1447 1448
 545 586
 1585 1296

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Sonar Systems
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Sonic Boom
 400 1021 222 1235 1306 497 1558 219
 1160 1281 462 1516 807 709
 1511 1512 857 789
 1571 967 1109
 1509

Sonic Fatigue use Acoustic Fatigue

Sound Attenuation use Noise Reduction

Sound Detection
 1042 1294

Sound Pressures use Acoustic Pressures

Sound Radiation
 1436 1327

Sound Reduction use Noise Reduction

Sound Transmission
 22 1473 455 466 67 28
 506
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 60 401 222 343 64 235 216 27 28 219
 400 701 462 993 564 1025 266 67 1158 709
 490 801 1022 1153 874 1495 726 497 1558 789
 710 1021 1272 1283 1274 1575 1306 707 1109
 950 1281 1442 1293 1434 1615 1516 807 1509
 1460 1441 1512 1423 1616 857
 1511 1572 1483 967
 1571 1157
 1227

Spacecraft see also Satellites
 150 971 112 113 244 165 866 367 198 889
 170 1261 202 193 394 195 996 587 1698 1569
 200 1291 542 233 654 995 1697 1699
 970 892 543 974 1365
 1630 972 673 994 1705
 1700 1262 973 1314
 1412 1563
 1562 1703
 1702

Space Frames
 725

Space Shuttles
 170 202 113 165 1697 198 1569
 200 1702 193 195 1698 1699
 1630 1563
 1700

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 170 1702 113 165 1697 198 1569
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 442 1383 1404 1105 316 1587 748 419
 802 1684 1468 659

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 1443 1025 306
 1573

Spherical Shells
 790 41 1072 953 4 705 276 487 1328 9
 850 1481 1202 454 1617
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 1614

Spinning use Rotation

Springs
 51 512 183 254 437 18
 867 958

SST Aircraft
 1073 565 1107

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 250 261 12 923 14 355 256 487 158 349
 1570 381 292 34 525 516 537 288 759
 431 912 104 625 1016 607 1128 779
 541 1082 1144 855 1086 1407 1468 1429
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			921 1252 749	
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			280 461 262 283 204 515 286 617 268 269	
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			320 621 282 383 284 605 576 767 608 299	
Stiffened Cylinders			390 751 372 443 384 625 606 847 618 419	
1330			400 771 382 453 394 715 766 857 648 479	
Stiffened Plates			470 881 392 463 494 895 776 887 728 669	
160 262 1089			480 921 402 473 594 935 906 907 748 729	
1290			610 1101 462 603 924 945 946 1027 768 749	
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1330 1072 1335 1068			760 552 683 1364 1135 1066 1067 858 789	
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			930 632 743 1146 928 929	
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			890 725 786 1017 1359	
			1100 1225 846 1357	

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Structures in Fluid Media use Submerged Structures

Submerged Structures

640 1131 422 1473 474 225 216 277 718 229
650 1621 452 1573 564 455 266 1029
1042 614 475 306
1072 754 585 756
1132 1434 1185
1282 1614

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1231 174 505
1651

Suspension Bridges

1231 174
1651

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531 102 183 254 325 326 327 1118 349
332 653 324 525 436 437 809
512 1673 424 1396 1467 989
824 1119
1674 1459

T

Tanks (Storage)

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751 672 1218 489
892 949

Tapered Beams use Beams or Variable Cross Section

Tapes use Moving Strips

Taxiing Effects

1105

Taylor Series Method

688

Test Data see also Experimental Results

90 111 222 176 1667 118 349
910 241 972 1078 789
970 741 1222 1448
1590 971 1558
1668

Test Equipment

20 212 1693 1694 135 246 127 588 129
242 667 988 1589
482
1452

Test Facilities

130 131 1302 133 134 385 396 128 89
1451 675 1236
1305

Test Fixtures use Test Facilities

Test Instrumentation

240 792 153 174 126 908 739

Testing Techniques

110 311 592 423 174 145 126 137 268 149
140 361 792 593 214 185 136 147 678 199
180 421 912 673 294 215 146 167 738 369
250 481 883 524 425 786 297 758 529
360 1181 913 594 816 367 1458 549
1300 1591 1173 1004 906 667 579
1390 1693 1454 1176 907 739
1406 1197 909
1706 1287 1139
1449

Test Models

510 181 112 113 244 635 236 167 1688 129
590 311 132 153 1535 586 287 219
830 421 422 1583 696 967 309
1660 541 1472 459
1670 1651
1700

Tests use more specific term: Acoustical Tests, Dynamic Tests, Fatigue Tests, Impact Tests, Resonance Tests, Shock Tests, Vibration Tests

Test Specifications

214 245

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 210 581 582 754 205 356 367 208
 220 791 692 934 956 467 258
 260 702 994 1137 298
 270 1204 408
 320 778
 360
 430

Theory of Elasticity use Elastic Theory

Thermal Excitation

410 1581 272 883 54 755 166 47 469
 622 154 576 597 1579
 882 944

Thick Plates use Plates

Thin Beams use Beams (Supports)

Thin Plates use Membranes

Thin Shells use Shells (Structural Forms)

Three-Dimensional Problems

1271 1612

Time-Induced Excitation

1322

Timoshenko Beam Theory use Timoshenko Theory

Timoshenko Theory

480 1431 1422 443 285 926 267 258 1279
 1063 1056 517 1058
 1193 1477 1608

Tires

535 987

Tools

520 811 1002 1313 656 1247 519
 1402 1403 1246 1529
 1316

Torsional Response

1532 1033 1246 537 1519
 1286
 1466

Torsional Vibrations

1121 985 526 1637 878 9
 879

Torsional Waves use Shear Waves

Towers

490 502 1053 976 298
 962 1596

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130 334

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Tractors

325

Traffic Noise

1151 822 823 1154 825 1666 818 819
 1691

Trains use Railroad Trains

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1453

Transducers

1170 142 903 734 735 589
 1172 905 1309
 1035
 1455

Transfer Matrix Method

1361 842 104 478
 1542 498

Transient Excitation

1181 944
 1324
 1494

Transient Vibrations use Transient Response

Transient Response

1690 41 2 483 614 195 66 57 278 39
 771 462 913 1614 475 216 167 738 299
 1311 632 1183 705 556 717 1598 469
 1461 1072 1193 925 786 747 749
 1501 1082 1413 1265 906 857 779
 1561 1192 926 907 849
 1116 1477
 1136
 1356

Transmission Lines

784

Transmissibility use Transmissivity

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Transportation Systems

130 1531 332 333 324 335 336 187 98 389
813 814 337 338 659

Transverse Shear Deformations

382 33 514 1145 386 157 258
602 383 516 267 468
1082 443 1326 457 1188
1492 463 517 1488
1343 627
1317

Transverse Vibrations use Flexural Vibrations

Transversely Isotropic Media

1323 1324

Traveling Loads use Moving Loads

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1100

Trucks

350 391 352 533 1674 325 436 327 668 989
530 531 437
1127

Tubes

850 1601 156 678
1600 918
1008

Tube-Vehicle Systems

332 333 98

Tunnels

783 1219

Turbine Blades

203 1414 106

Turbine Components

360 203 304 106 1417
674 1266
1414

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90 1262 154 155 106 107 998 999
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1137
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1417

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500 63 1644 1475 828
1090 1485

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Ultrasonic Tests

110 1032 1004 837 678 249
370 1454 1177 838 369
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1139

Ultrasonic Vibration

520 711 72 403 5 186 47 38
680 735 1676 1678
920 1706
1000
1140

Ultraharmonic Response use Ultrasonic Resonance

Unbalanced Mass Response

651 613 1256 649
1696 1129

Underground Explosions

1233 1564 475 1226 1237 298 459
1383 968
1238

Underground Structures

1380 511 783 315 968 1219
1439

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953 1307 1028

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1410 401 253 564 1295 706 1037 1438 219
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993 1446 1509
1293
1473

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Valves

1093 435

Van der Pol Method 1550

Variable Cross Section 1560 441 1053

157 748 1609

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Variational Methods

1330 692 603 855 457 69
863 847 229

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Velocity Damping 891

Vibrating Structures

1273 1304 1186 1497 1069
1423

Vibration Absorption (Equipment) see also

Shock Absorption

50 391 1592 1593 319
791
1311
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Vibration Analyzers

1300 414 19

Vibration Control

120 982 183 394 956 978
1142 1683

Vibration Dampers

151 1594 996 1597 889
1466
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990 1012
1290

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411 363 884 485 598
1303

Vibration Frequencies use Natural Frequencies

Vibration Isolation see also Vibration Reduction

321 182 84 35 1376 247 1599
1162 1536 1047

Vibration Isolators

1670 391 1672 723 654 1038
1701

Vibration Measurements

870 371 482 903 524 888
911 872 943 904
1171 1073

Vibration Mode use Normal Mode

Vibration Monitors

1450 634 1166 417 1299
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Vibration Reduction

1124 727

Vibration Resonance

50 493 935 106 979

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360 31 202 63 754 505 516 147 378 179
440 561 742 93 934 625 546 447 808 329
480 591 812 373 1184 905 756 587 848 379
870 741 932 443 1204 955 826 677 908 759
950 751 463 1224 1075 956 757 978 929
980 911 673 1274 1255 986 777 988 1039
1050 961 713 1355 1076 787 1478 1239
1200 1231 913 1365 1176 907 1399
1250 1361 1083 1475 1326 927 1489
1280 1495 1017 1549
1420 1535 1077
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Vibration Tests

130 1041 592 1703 314 135 146 127 528 149
430 594 145 236 237 1038 739
1664 345 566 1697 1268
995 586
1215 1216

Vibrators (Machinery)

1001 1092 126 127 108 109
1141 1006 547 368 1389
548 1589
588

Vibratory Compacting

732 1296 1448 1269

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Vibratory Conveyors use Vibrators (Machines)
or Materials Handling Equipment

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Vibratory Tools

1002 1403

1529

Walls

1402

1539

400 171 222

514

776

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1366

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1246

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781

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60

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400

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1052

893

1056

1099

490

571

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875

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1022

720

701

412

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1149

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Waves use: Circumferential Waves, Dilational Waves, Distortional Waves, Elastic Waves, Extensional Waves, Flexural Waves, Longitudinal Waves, Mechanical Waves, Oscillation Waves, Rayleigh Waves, Shear Waves, Sound Waves, Spherical Waves, Standing Waves

Wave Scattering use Wave Diffraction

Weapon Effects see also Nuclear Explosions
 511 562 963 94 295 509
 592 194
 652 1524

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Weighted Mean Square Method
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 400 1235 857

Wings use Aircraft Wings

Wire 571 1607

Work Hardening use Strain Hardening

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